2022-23

QUALITY CONTROL REPORT

Name of the Client: : Executive Engineer (Electrical) Dasarahalli Zone, BBMP, Bangalore.

Agency: : M/s Nagaraju Lingaiah (Vedha Electricals), Contractor, Bangalore.

Name of the Work: : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Quality

M/s. CIVIL QUALITY CONSULTANTS& ENGINEERS

(Buildings Geo-Tech &Road Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited as per ISO-17025: 2017 Laboratory

#133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore-560056
E-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 Mob: 9886998316

Scanned by CamScanner

QC-ABSTRACT

Name of Work:- : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:4:8	0.94 Cum	1	1	Cement
					Sand, Aggregates
2	Steel	0.582 Tonne	1	1	-
3	M20	8.00 Cum	2	2	Concrete Cube Compressive Strength

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for every 50 Cum

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23 Date:18.05.2022

TEST REPORT ON CEMENT

Client : **Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.

Agency : **M/s Nagaraju Lingaiah (Vedha Electricals),** Contractor, Bangalore.

Name of Work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Sample : :Cement (Dalmia 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : February-2022

Date of Testing : 16.05.2022 to 18.05.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

ASST. EXECUTIVE ENGINEER (Ele)

Authorised Signatory

Corporate Office: No.1, 1st Floor, Nagarjuna Nagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518650, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date : 18.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.

Agency : **M/s Nagaraju Lingaiah (Vedha Electricals)**, Contractor, Bangalore.

Name of Work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Date of Testing : 18.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Total Wt. of Aggregates in gms 1000

Material : Sand

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	112	11.20	18.90	81.1	75-100
1.18	183	18.30	37.20	62.8	55-90
600 Micron	229	22.90	60.10	39.9	35-59
300 Micron	194	19.40	79.50	20.5	8-30
150 Micron	126	12.60	92.10	7.9	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

JUNIOR ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike Dasarahalli Zone, Bangalore

ASST EXECUTIVE ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike Dasarahalli Zone, Bangalore

ASST EXECUTIVE ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike Dasarahalli Zone, Bangalore

Authorised Signatory

Corporate Off: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date : Providing LED

TEST REPORT ON COARSE AGGREGATES

Client : Executive Engineer, K R Pura Division,BBMP, Bangalore.

Agency : Executive Engineer (Electrical) Dasarahalli Zone, BBMP, Bangalore.

Name of Work : M/s Nagaraju Lingaiah (Vedha Electricals), Contractor, Bangalore.

Date of Testing : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

IS Code : 18.05.2022

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	203	1.35	1.35	98.65	95-100
20	8326	55.51	56.86	43.14	30-70
10	3107	20.71	77.57	22.43	10-35
4.75	2715	18.10	95.67	4.33	0-5

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
...ath Bangalore Mahanagara Palike
...halli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23 Date : 18.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.

Agency : **M/s Nagaraju Lingaiah (Vedha Electricals),** Contractor, Bangalore.

Name of Work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Date of Testing : 18.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	211	4.2	4.2	95.8	95-100
10	2698	54.0	58.2	41.8	25-55
4.75	1734	34.7	92.9	7.1	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date 18.05.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer (Electrical) Dasarahalli Zone, BBMP, Bangalore.

Agency : M/s Nagaraju Lingaiah (Vedha Electricals), Contractor, Bangalore.

Name of Work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Steel Dia/Length : 8mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 18.05.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	502	616	1.23	21
3	TMT	12	0.889	527	625	1.19	17.5

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 30 days from the date of testing

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Scanned by CamScanner

CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.
Agency	**: M/s Nagaraju Lingaiah (Vedha Electricals),** Contractor, Bangalore.
Name of the work	: Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	02.06.2022	8.033	352.6	15.67
2	26.05.2022	02.06.2022	8.065	384.1	17.07
3	26.05.2022	02.06.2022	8.104	367.2	16.32

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date: 23.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.
Agency	: **M/s Nagaraju Lingaiah (Vedha Electricals),** Contractor, Bangalore.
Name of the work	: Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	23.06.2022	8.154	500.3	22.24
2	26.05.2022	23.06.2022	8.117	494.2	21.96
3	26.05.2022	23.06.2022	8.083	486.5	21.62

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23 Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer (Electrical)** Dasarahalli Zone, BBMP, Bangalore.

Agency : **M/s Nagaraju Lingaiah (Vedha Electricals),** Contractor, Bangalore.

Name of the work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	02.06.2022	8.075	350.4	15.57
2	26.05.2022	02.06.2022	8.092	369.3	16.41
3	26.05.2022	02.06.2022	8.134	377.1	16.76

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NL/12/2022-23

Date: 23.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer (Electrical) Dasarahalli Zone, BBMP, Bangalore.

Agency : M/s Nagaraju Lingaiah (Vedha Electricals), Contractor, Bangalore.

Name of the work : Providing LED Street lights/ Poles/ Control Switches/ Control Wires at Dark/ Volernabal places in ward no.12, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.05.2022	23.06.2022	8.194	510.4	22.68
2	26.05.2022	23.06.2022	8.167	483.2	21.48
3	26.05.2022	23.06.2022	8.147	495.7	22.03

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

Scanned by CamScanner